

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1009488

Luminaire Tested: S122DIP-B865D330UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009488
REPORT IS A COMBINATION OF REPORTS P984807 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D330UB30-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

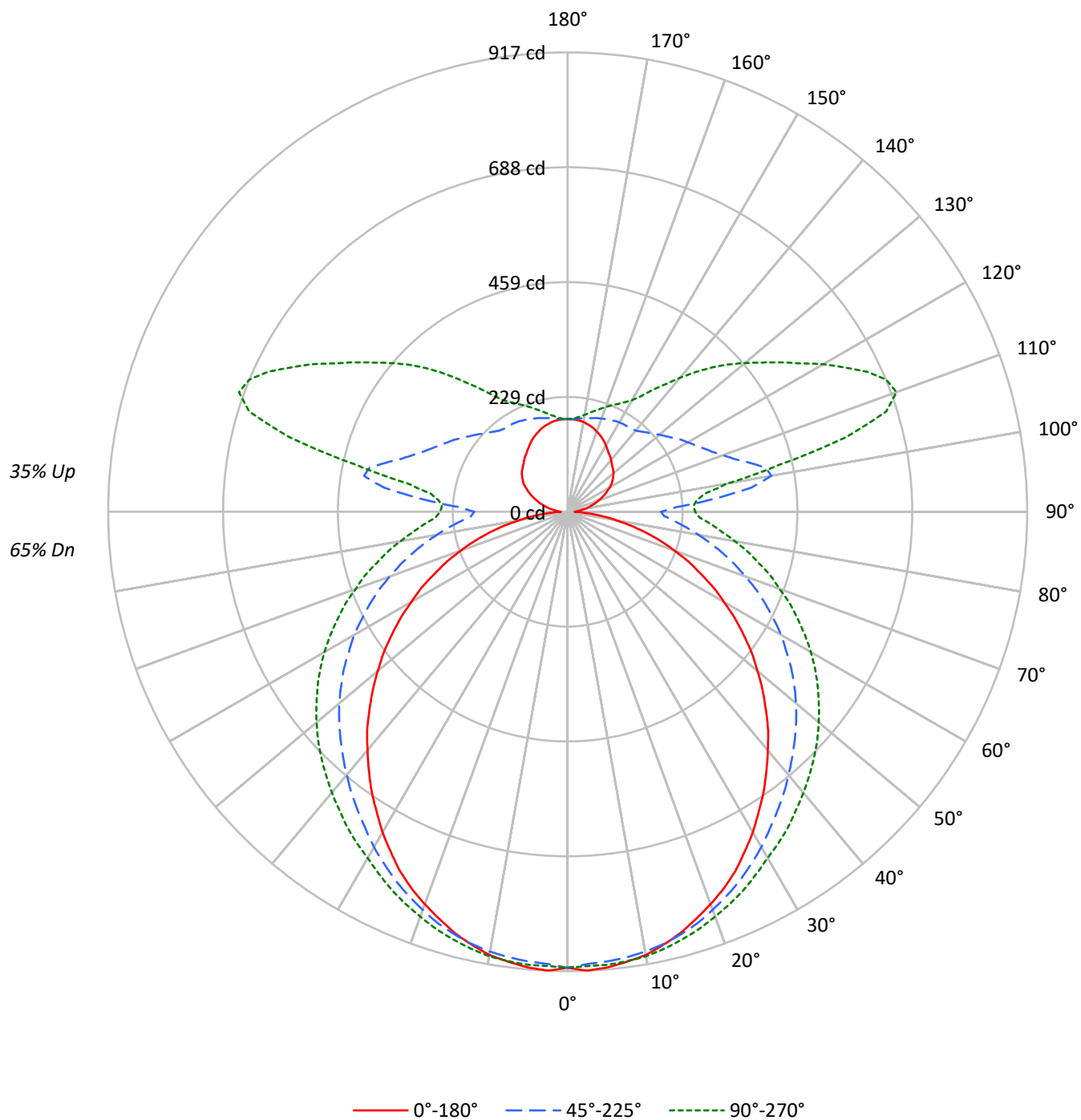
Lumens per Lamp: N/A
Luminaire Lumens: 4762.5 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56.1
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1009488

CATALOG NUMBER: S122DIP-B865D330UB30-4F0-XX-W2A-D4

Luminous Intensity Polar Plot



TEST NUMBER: P1009488

CATALOG NUMBER: S122DIP-B865D330UB30-4F0-XX-W2A-D4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	111	111	111	111	104	104	104	104	92	92	92	80	80	80	70	70	70
1	99	94	89	85	93	88	84	80	77	74	71	68	65	63	59	57	55
2	90	81	74	68	84	76	70	64	67	62	58	58	54	51	50	48	45
3	81	71	62	56	76	66	59	53	58	52	48	51	46	42	44	40	37
4	74	62	53	47	69	58	50	44	51	45	40	45	40	36	39	35	32
5	68	55	46	40	63	52	44	38	46	39	34	40	35	31	35	31	27
6	62	49	41	34	58	47	39	33	41	35	30	36	31	27	32	27	24
7	58	44	36	30	54	42	34	29	37	31	26	33	28	24	29	24	21
8	54	40	32	26	50	38	31	25	34	28	23	30	25	21	26	22	19
9	50	37	29	23	47	35	28	23	31	25	21	28	22	19	24	20	17
10	47	34	26	21	44	32	25	20	29	23	19	26	20	17	23	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14408	14408	14408
5°	14473	13793	13716
10°	14375	13315	13121
15°	14172	12822	12511
20°	13917	12303	11934
25°	13665	11806	11409
30°	13310	11300	10889
35°	12952	10814	10507
40°	12575	10392	10129
45°	12215	10011	9799
50°	11830	9659	9472
55°	11423	9285	9140
60°	10927	8895	8791
65°	10409	8448	8389
70°	9826	7969	7957
75°	9079	7486	7549
80°	7896	6986	7127
85°	6710	6516	6763

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12215 cd/sqm

TEST NUMBER: P1009488

CATALOG NUMBER: S122DIP-B865D330UB30-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.3	1.8
10°-20°	247.5	5.2
20°-30°	375.0	7.9
30°-40°	456.6	9.6
40°-50°	491.3	10.3
50°-60°	477.1	10.0
60°-70°	416.7	8.7
70°-80°	320.7	6.7
80°-90°	216.0	4.5
90°-100°	223.1	4.7
100°-110°	361.4	7.6
110°-120°	337.6	7.1
120°-130°	258.7	5.4
130°-140°	192.6	4.0
140°-150°	135.7	2.8
150°-160°	93.4	2.0
160°-170°	55.0	1.2
170°-180°	17.9	0.4
0°-30°	708.7	14.9
0°-40°	1165.3	24.5
0°-60°	2133.7	44.8
0°-90°	3087.0	64.8
90°-120°	922.2	19.4
90°-150°	1509.2	31.7
90°-180°	1675.0	35.2
0°-180°	4762.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	910	910	910	910	910	
5°	913	909	901	909	908	87
15°	871	873	873	885	884	245
25°	792	801	813	828	832	364
35°	682	704	730	758	768	426
45°	559	595	641	682	695	432
55°	429	476	545	592	609	383
65°	293	358	435	489	506	291
75°	162	236	320	377	394	172
85°	48	129	214	269	288	50
90°	14	94	186	238	254	10
95°	23	103	291	254	258	21
105°	50	110	377	630	575	54
115°	82	116	299	573	660	81
125°	109	129	257	449	520	98
135°	126	151	224	352	407	98
145°	143	164	208	266	297	90
155°	162	175	202	229	238	75
165°	177	182	194	205	209	50
175°	184	185	186	188	188	18
180°	185	185	185	185	185	

TEST NUMBER: P1009488

CATALOG NUMBER: S122DIP-B865D330UB30-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	910.2	910.2	910.2	910.2	910.2
2.5°	916.8	912.8	903.6	910.2	907.6
5°	912.8	908.9	901.0	908.9	907.6
7.5°	906.2	903.6	897.0	906.2	904.9
10°	898.3	895.7	891.7	902.3	901.0
12.5°	885.1	886.5	883.8	894.4	893.1
15°	870.6	873.3	873.3	885.1	883.8
17.5°	852.2	857.4	861.4	873.3	873.3
20°	833.7	840.3	845.6	860.1	860.1
22.5°	813.9	821.8	829.7	844.2	846.9
25°	791.5	800.7	812.6	828.4	832.4
27.5°	765.1	779.6	792.8	812.6	815.2
30°	738.7	755.9	773.0	794.1	798.1
32.5°	709.7	729.5	750.6	775.6	783.6
35°	682.0	704.4	729.5	758.5	767.7
37.5°	651.6	676.7	708.4	740.0	749.3
40°	621.3	650.3	685.9	720.2	732.1
42.5°	592.3	621.3	663.5	701.8	713.6
45°	559.3	594.9	641.1	682.0	695.2
47.5°	527.7	565.9	618.7	660.9	675.4
50°	494.7	535.6	594.9	639.8	654.3
52.5°	463.0	506.5	569.9	616.0	631.9
55°	428.7	476.2	544.8	592.3	609.4
57.5°	395.7	448.5	517.1	568.5	585.7
60°	360.1	416.8	492.0	542.2	560.6
62.5°	328.5	387.8	463.0	517.1	534.2
65°	292.8	357.5	435.3	489.4	506.5
67.5°	261.2	328.5	407.6	461.7	480.2
70°	226.9	295.5	377.3	434.0	449.8
72.5°	195.2	266.5	349.6	405.0	424.8
75°	162.3	236.1	320.5	377.3	394.4
77.5°	130.6	207.1	292.8	349.6	368.0
80°	98.9	179.4	265.1	320.5	339.0
82.5°	72.6	151.7	238.8	294.2	311.3
85°	47.5	129.3	213.7	269.1	287.6
87.5°	29.0	108.2	192.6	246.7	263.8
90°	13.6	94.5	186.2	238.4	254.4
92.5°	17.2	98.6	217.0	239.0	251.2
95°	23.0	103.2	291.0	254.4	258.2
97.5°	27.7	106.3	369.6	296.8	275.0
100°	36.6	107.4	412.6	390.9	322.4
102.5°	43.4	109.0	405.2	525.5	432.7
105°	50.0	110.3	376.7	630.2	574.6
107.5°	58.5	111.5	349.7	661.5	666.8
110°	65.7	112.8	329.8	644.2	698.1



TEST NUMBER: P1009488

CATALOG NUMBER: S122DIP-B865D330UB30-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	73.5	115.2	312.7	612.0	688.2
115°	81.7	116.3	299.4	573.4	660.2
117.5°	88.9	118.6	287.4	537.3	623.4
120°	96.7	120.8	277.0	502.8	588.9
122.5°	104.2	124.6	267.7	474.9	550.8
125°	109.2	128.8	256.7	448.8	519.8
127.5°	114.5	134.0	247.6	423.8	489.0
130°	119.2	139.9	239.0	400.0	461.7
132.5°	123.4	145.6	230.8	375.6	435.1
135°	126.4	150.6	223.8	351.8	407.1
137.5°	130.3	154.8	217.2	327.6	378.4
140°	134.9	157.4	211.5	305.2	349.0
142.5°	139.5	160.6	208.9	284.6	320.9
145°	142.8	164.2	208.2	266.4	297.4
147.5°	147.8	167.0	207.2	250.8	274.3
150°	152.8	169.9	206.1	241.6	256.9
152.5°	157.8	172.7	204.3	235.0	246.6
155°	162.4	175.4	202.2	228.6	237.7
157.5°	166.3	177.5	200.1	222.6	229.9
160°	170.2	179.6	197.9	216.6	222.4
162.5°	174.1	181.2	196.2	210.9	215.3
165°	177.0	182.3	193.7	205.4	208.6
167.5°	179.4	183.4	191.5	200.4	202.2
170°	181.9	183.9	189.8	195.8	196.5
172.5°	183.4	184.4	187.6	191.7	191.9
175°	184.4	184.6	186.2	188.5	188.0
177.5°	185.1	184.8	184.8	186.2	185.1
180°	184.8	184.8	184.8	184.8	184.8

(END OF REPORT)